

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/05157

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01M2/20, H01M2/30, H01M2/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01M2/20-H01M2/34, H01M2/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-285905 A (Sanyo Electric Co., Ltd.), 13 October, 2000 (13.10.00), Fig. 1 Par. Nos. [0021] to [0025] (Family: none)	1-3, 6-8
X	JP 2001-325943 A (Toshiba Battery Co., Ltd.), 22 November, 2001 (22.11.01), Fig. 1; Par. Nos. [0015] to [0019] (Family: none)	1, 4, 6-8
X	JP 2002-8630 A (TDK Corp.), 11 January, 2002 (11.01.02), Figs. 2 to 4 (Family: none)	1, 4, 6-8

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

- * Special categories of cited documents:
- *A* document defining the general state of the art which is not considered to be of particular relevance
 - *E* earlier document but published on or after the international filing date
 - *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 - *O* document referring to an oral disclosure, use, exhibition or other means
 - *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search
29 July, 2003 (29.07.03)Date of mailing of the international search report
12 August, 2003 (12.08.03)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-90906 A (Matsushita Electric Industrial Co., Ltd.), 31 March, 2000 (31.03.00), Fig. 1 (Family: none)	1, 4, 6-8
P, X	JP 2003-86159 A (Matsushita Electric Industrial Co., Ltd.), 20 March, 2003 (20.03.03), Fig. 8; Par. No. [0054] (Family: none)	1, 4, 6-8
P, X	JP 2003-45492 A (Sony Corp.), 14 February, 2003 (14.02.03), Figs. 3, 4 (Family: none)	1, 4, 6-8
A	JP 2002-117819 A (GS Merukotekku Kabushiki Kaisha), 19 April, 2002 (19.04.02), (Family: none)	1-8